



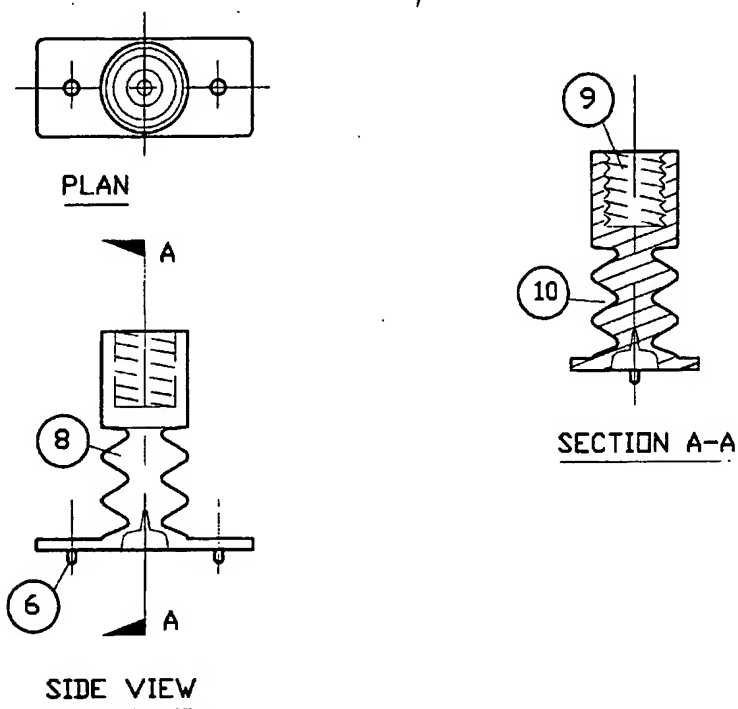
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(51) Int. Cl.<sup>6</sup> B24D 15/00

(54) **POIGNEE POUR EPONGE ABRASIVE**

(54) **ABRASIVE SPONGE GRIP**



(57) A hand tool, design to grip an abrasive sponge commonly use for sanding. This design also allow interchangeable handles specified as adapters.

**"ABRASIVE SPONGE GRIP"****TECHNICAL FIELD**

5 This invention relates to the technical field involved in the manufacture of abrasive sponge grip, these sponges are commonly used for sanding various objects such as wood, wallboards, and metal.

**BACKGROUND ART**

10 When using an abrasive sponge, it becomes very awkward to grip, doing certain type of sanding. In order to prevent injury to one's knuckles, and facilitate the sanding operation, the abrasive sponge grip was developed.

Although there are several types of sanders and grips on the market, there is no similar grip for these particular abrasive sponges. The sanding sponge grip, not only facilitate  
15 sanding but can be adopted to use with standard extensions for hard to reach places such as ceiling and the top of tall walls.

**DISCLOSURE OF THE INVENTION**

20 The present invention comprises a metal or plastic tray with sharp 1/4" long tabs, located on the two sides of the tray, these tabs are positioned to give maximum grip to the sponge while sanding. By simply compressing the sponge below the tabs on one side of the tray, the sponge can be easily removed.

25 In a further preferred embodiment of this invention, this sanding sponge grip, is design to use interchangeable adapters, one for sanding at arms length, while the other have flex joints, which is made from rubber or the likes, enabling sanding in various positions when an extension is being used.

It will be appreciated that the sponge grip is design to be always narrower than the actual  
30 abrasive sponges, in order not to impede sanding in the corners.

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2**BRIEF DESCRIPTION OF DRAWINGS**

Figure 1 is a isometric view of the invention.

Figure 2 are pointed retainer tabs, these tabs retain the abrasive sponge while in  
5 use.

Figure 3 are added side tabs, preventing the abrasive sponge pushing side ways

Figure "A" is a longitudinal sectional view in perspective.

Figure 6 are guide pins typically spaced on both adapters to fit in holes located in  
tray Figure 4

10 Figure 8 is a side view of the extension adapter

Figure 9 is a threaded hole made to hold a standard broom handle extension

Figure 10 is the flex joint, design to facilitate movement during sanding

Figure 11 is a recess in the tray 5/8" dia. 3/16" deep

Figure 12 are clearance holes for #8 x 3/4" sheet metal screw

15 Figure 13 is an assembly of the abrasive sponge and handle

**MODES FOR CARRYING OUT INVENTION**

Figure 1 illustrate the sponge grip tray. This tray can be manufacture from sheet  
20 metal, moulded plastic, zinc die cast, forging or the likes. This tray is design to accept  
various width abrasive sponges. However, the length of the sponge may vary depending  
on the manufacture.

The grip tray will be manufacture to suit the commonly used size sponges. For odd or  
infrequently used size sponges, the sponge can be cut to suit the available size grip tray.

25 As illustrated in Figure 1 the inside of the tray is adapted with a plurality of punched tabs  
(2) to provide grip for the abrasive sponge. These tabs can be spot welded in position,  
moulded or punched in place. The grip tray has a centre recess (11) used as a countersink  
for a # 8 screw and guide for the interchangeable handles. The extension adapter figure 8  
is manufacture from flexible rubber, vinyl or the like. Figure 10 is the flex joint integrally  
30 made with the extension. This joint replaces the commonly used universal joint.

**INDUSTRIAL APPLICATION.**

The "abrasive sponge grip" of the present invention may be manufactured for use in residential, commercial or industrial location.

**5 IN THE CLAIMS.**

1. An open tray having two sides, each side positioned at 90 degrees to the base of the tray, both sides are always shorter than the actual thickness of the abrasive sponge, and run parallel to each other, forming an oblong. The two inner faces on the perpendicular sides of the tray adapted with a plurality of pointed tabs positioned to retain the abrasive  
10 sponge while in use. One open side of the tray is design to be narrower, than the actual abrasive sponge, this feature allow the sponge to sand into a corner on both sides, without interference to the tray. The other open side of the tray is fitted with upright tabs, positioned to prevent the abrasive sponge from pushing out when sanding into corners. The handle (fig.13) can also be positioned right or left on top of the sponge holder.

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2. The tray of claim 1 is design to accept the special design extension adapter, or the hand held adapter.

20

3. An extension adapter design with an integral flex joint, used with the tray of claim 1

**ABSTRACT OF THE DISCLOSURE**

A hand tool, design to grip an abrasive sponge commonly use for sanding. This  
25 design also allows interchangeable handles specified as adapters.

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**IN THE CLAIMS.**

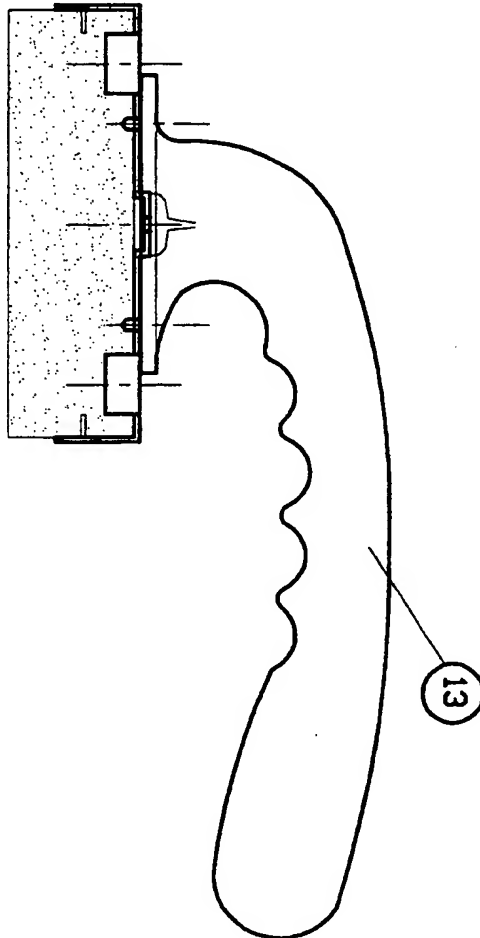
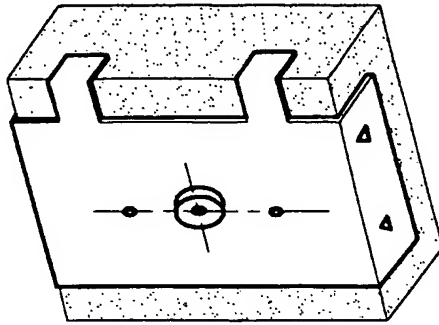
- 10 1. A tray having two sides, both sides positioned 90 degrees to the base of the tray, both sides are always shorter than the actual thickness of the abrasive sponge and run parallel to each other, forming a oblong. The inner face of the tray adapted with a plurality of pointed tabs positioned to retain the abrasive sponge while in use. The open sides of the tray is always narrower than the actual abrasive sponge, this design enables the sponge to sand into corners without interference to the tray.
- 15 2. The tray of claim 1 is design to accept the specially design extension adapter, or a hand held adapter
3. An extension adapter design with a integrally flex Joint, used with the tray of claim 1.

**ABSTRACT OF THE DISCLOSURE**

25 A hand tool, design to grip an abrasive sponge commonly use for sanding. This design also allow interchangeable handles specified as adapters.

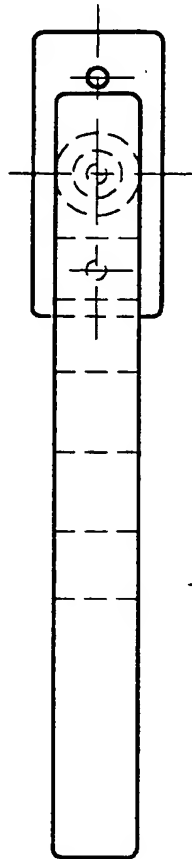
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REVISIONS				
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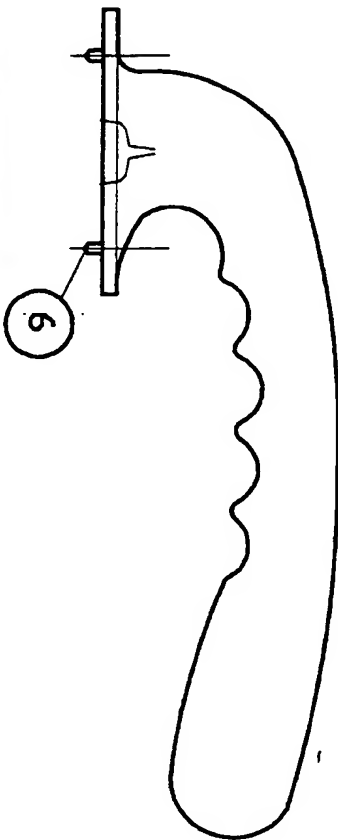


DRAWN BY JRR		SPONGE HOLDER ASSEMBLY			
		ABRASIVE SPONGE GRIP			
DATE	10-08-98	SIZE	FSCM NO.	DWG NO.	REV
		SCALE	NTS	SANDER4.DWG	A
		SHEET		SHEET 4 OF 4	

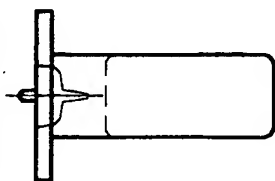
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PLAN



SIDE VIEW

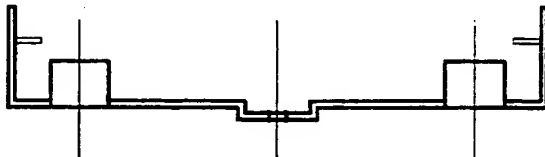
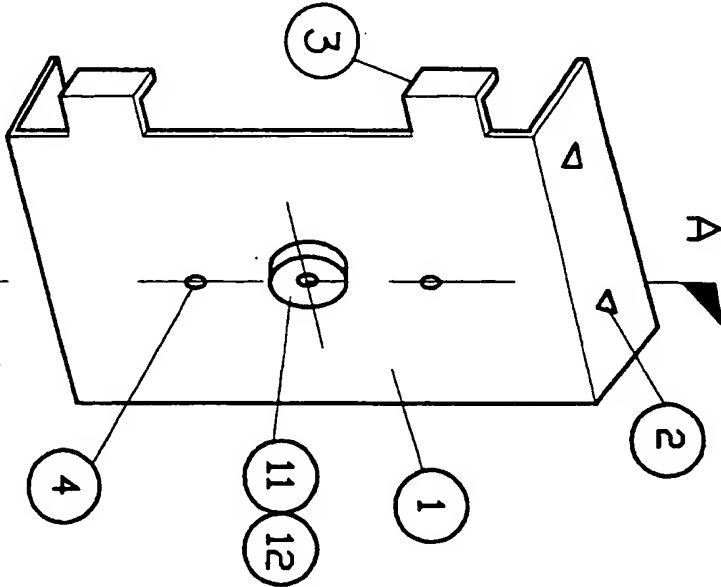


END VIEW

DRAWN BY JRR		SIZE		FSCM NO.		DWG NO.		SANDERS.DWG		REV	
		DATE 10-08-98		SCALE NTS		SHEET		SHEET 3 OF 4		A	
ADAPTER HANDLE						ABRASIVE SPONGE GRIP					

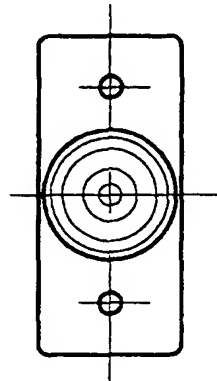


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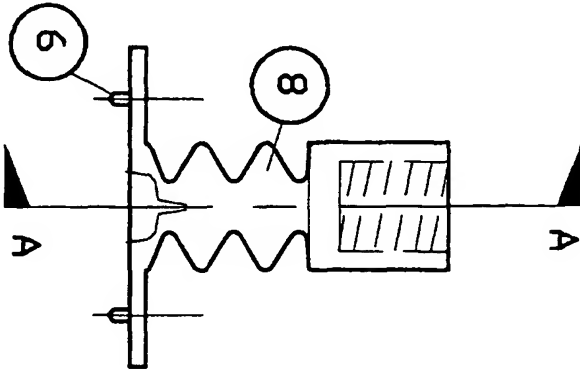


SECTION A-A

				SPONGE HOLDER				
				ABRASIVE SPONGE GRIP				
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DATE		10-08-98		SCALE	MTS		SHEET	SHEET 2 OF 4
								A

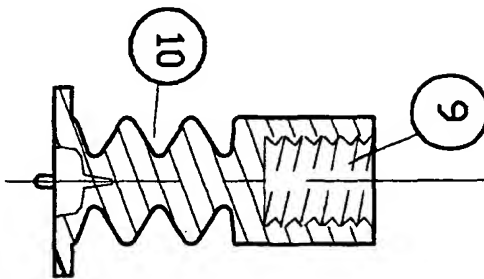


PLAN



SIDE VIEW

REVISIONS			
ZONE	REV	DESCRIPTION	DATE



SECTION A-A

				EXTENSION ADAPTER					
				ABRASIVE SPONGE GRIP					
				SIZE		FSCM NO.		DWG NO.	
DRAWN BY		JRR				SANDER1.DWG		REV	
DATE		10-08-98		SCALE		MTS		SHEET SHEET 1 OF 4	